03050109-050
(Georges Creek)

General Description

Watershed 03050109-050 is located in Pickens County and consists primarily of *Georges Creek* and its tributaries. The watershed occupies 21,095 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Madison series. The erodibility of the soil (K) averages 0.25; the slope of the terrain averages 15%, with a range of 2-40%. Land use/land cover in the watershed includes: 18.50% urban land, 13.73% agricultural land, 0.70% scrub/shrub land, 0.49% barren land, 66.24% forested land, and 0.34% water.

The Georges Creek watershed drains into the Saluda River near the City of Greenville. Tributaries draining into Georges Creek include Mad Dog Branch, Burdine Creek, Hamilton Creek (East Creek, Middle Creek), Little Georges Creek, and Crayton Creek. There are a total of 34.4 stream miles in this watershed, all classified FW. Georges Creek Lake (47 acres) is used for flood control and recreation.

Water Quality

Station #	Type	Class	Description
S-005	S	FW	GEORGES CREEK TRIB AT S-39-192, 2.6 MI NE EASLEY
S-865	BIO	FW	GEORGES CREEK AT ROAD ABOVE SR 36
S-300	W	FW	GEORGES CREEK AT S-39-28

***Georges Creek* - There are two monitoring sites along Georges Creek, which was Class B until April, 1992. At the upstream site (S-865), aquatic life uses are fully supported based on macroinvertebrate community data. Aquatic life uses are also fully supported at the downstream site (S-300), but recreational uses are not supported due to fecal coliform bacteria excursions.**

***Georges Creek Tributary (S-005)* - This stream was Class B until April, 1992. Aquatic life uses are fully supported, but there is a significant decreasing trend in pH and an increasing trend in turbidity. A significant increasing trend in dissolved oxygen and significant decreasing trends in five-day biochemical oxygen demand and total phosphorus concentrations suggest improving conditions for these parameters. Recreational uses are not supported due to fecal coliform bacteria excursions.**

Permitted Activities

Point Source Contributions

RECEIVING STREAM / *FACILITY NAME* / *PERMITTED FLOW @ PIPE (MGD)* / *COMMENT*	*NPDES#* / *TYPE* / *LIMITATION*
GEORGES CREEK EASLEY COMBINED UTILITY/GEORGES CREEK PLT PIPE #: 001 FLOW: 0.82 WQL FOR NH3-N, DO, TRC	SC0023043 MINOR MUNICIPAL WATER QUALITY
BURDINE CREEK ALICE MFG/ELLISON PLANT PIPE #: 001 FLOW: 0.0004	SC0001171 MINOR INDUSTRIAL EFFLUENT

PIPE #: 002 FLOW: 0.017 **WQL FOR NH3-N, TRC, BOD5**	**WATER QUALITY**
HAMILTON CREEK **HOLLINGSWORTH SACO LOWELL CORP.** **PIPE #: 001 FLOW: 0.417** **WQL FOR NH3-N, TRC**	**SC0001155** **MAJOR INDUSTRIAL** **WATER QUALITY**
HAMILTON CREEK **CROSSWELL ELEM. SCHOOL** **PIPE #: 001 FLOW: 0.0105**	**SC0037486** **MINOR DOMESTIC** **EFFLUENT**
HAMILTON CREEK TRIBUTARY **EASLEY SITE TRUST** **PIPE #: 001 FLOW: 0.025**	**SC0046396** **MINOR INDUSTRIAL** **EFFLUENT**

Groundwater Concerns

The groundwater in the vicinity of the landfill owned by Hollingsworth Saco Lowell Corp. is contaminated with volatile organics and metals (chromium, copper, and zinc). This is a RCRA facility and the remediation phase is underway to treat the groundwater contamination. The surface waters affected by the groundwater contamination are East Creek and Middle Creek, which drain into Hamilton Creek.

Growth Potential

There is a high potential for urban development in this watershed, which contains the City of Easley. The area north and east of Easley to the Saluda River has been cited in the Appalachian Regional Development Plan as an infrastructure expansion area with potential for both industrial and residential growth. The area where US 123 crosses this watershed is lined with strip shopping centers, fast food restaurants, and large parking areas. Behind this line of fast development are located both residential and industrial areas.